



MAR 28 2006

Application #: 09/875,519
Title: Down-Regulation Resistant C-3 Convertase
Inventor: Farnies et al.
Docket #: 4-30443B
Attorney: Susan L. Hess (862) 778-7859

10 20 30 40 50 60
MGPTSGPSLL LLLLTHLPLA LGSPMYSIIT PNILRLESEE TMVLEAHDAQ GDVPVTVTVH

70 80 90 100 110 120
DFPGKKLVLS SEKTVLTPAT NHMGNVTFI PANREFKSEK GRNKFVTVQA TFGTQVVEKV

130 140 150 160 170 180
VLVSLQSGYL FIQTDKTIYT PGSTVLYRIF TVNHKLLPVG RTVMVNIENP EGIPVKQDSL

190 200 210 220 230 240
SSQNQLGVLP LSWDIPELVN MGQWKIRAYY ENSPQQVFST EFEVKEYVLP SFEVIVEPTE

250 260 270 280 290 300
KFYYIYNEKG LEVTITARFL YGKKVEGTAF VIFGIQDGEO RISLPESLKR IPIEDGSGEV

310 320 330 340 350 360
VLSRKVLLDG VQNPRAEGLV GKSLYVSATV ILHSGSDMVQ AERSGIPIVT SPYQIHFTKT

370 380 390 400 410 420
PKYFKPGMPF DLMVFVTNPD GSPAYRVPVA VQGEDTVQSL TQGDGVAKLS INTHPSQKPL

430 440 450 460 470 480
SITVRTKKQE LSEAEQATRT MQALPYSTVG NSNNYLHLSV LRTELRPGET LNVNFLLRMD

490 500 510 520 530 540
RAHEAKIRYY TYLIMNKGRL LKAGRQVREP GQDLVVLPLS ITTDFIPSFR LVAYYTLIGA

550 560 570 580 590 600
SGQREVVADS WVVDVKDSCV GSLVVVKSGQS EDRQPVPGQQ MTLKIEGDHG ARVVLVAVDK

610 620 630 640 650 660
GVFVLNKKNK LTQSKIWDVV EKADIGCTPG SGKDYAGVFS DAGLTFTSSS QQQTAQRUEL

670 680 690 700 710 720
QCPQPAARRR RSVQLTEKRM DKVGKYPKEL RKCCEDGMRE NPMRFSCQRR TRFISLGEAC

730 740 750 760 770 780
KKVFLDCCNY ITELRRQHAR ASHLGLARSN LDEDIIAEEN IVSRSEFPES WLWNVEDLKE

790 800 810 820 830 840
PPKNGISTKL MNIFLKDSIT TWEILAVSMS DKKGICVADP FEVTVMQDF IDLRLPYSVV

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RNEQVEIRAV LYNYRQNQEL KVRVELLHNP AFCSLATTKR RHQQTITIPP KSSLSPVYVI

910 920 930 940 950 960
VPLKTGLQEV EVKAAYVHHF ISDGVRKSLK VVPEGIRMNK TVAVRTLDP RLREGVQKE

FIG. 1A

Best Available Copy

970 980 990 1000 1010 1020
DIPPADLSDQ VPDTESETRI LLQGTPVAQM TEDAVDAERL KHLIVTPSGC GEQNMIGMTP

1030 1040 1050 1060 1070 1080
TVIAVHYLDE TEQWEKFGLE KRQGALELIK KGYTQQLAFR QPSSAAFAFV KRAPSTWLTA

1090 1100 1110 1120 1130 1140
YVVKVFSLAV NLIAIDSQVL CGAVKWILIE KQKPDGVFQE DAPVIHQEMI GGLRNNNEKD

1150 1160 1170 1180 1190 1200
MALTAFVLIS LQEAKDICEE QVNSLPGSIT KAGDFLEANY MNLQRSYTVA IAGYALAQMG

1210 1220 1230 1240 1250 1260
RLKGPLLNF LTTAKDKNRW EDPGKQLYNV EATSYALLAL LQLKDFDFVP PVVRWLNEQR

1270 1280 1290 1300 1310 1320
YYGGGGYGSTQ ATFMVFQALA QYQKDAPDHQ ELNLDVSQL PSRSSKITHR IHWESASLLR

1330 1340 1350 1360 1370 1380
SEETKENEGF TVTAEGKGQG TLSVVTMYHA KAKDQLTCNK FDLKVTIKPA PETEKRPQDA

1390 1400 1410 1420 1430 1440
KNTMILEICT RYRGDQDATM SILDISMMTG FAPDTDQLKQ LANGVDRYIS KYELDKAFSD

1450 1460 1470 1480 1490 1500
RNTLIIYLDK VSHSEDDCLA FKVHQYFNVE LIQPGAVKVV AYYNLEESCT RFYHPEKEDG

1510 1520 1530 1540 1550 1560
KLNKLCRDEL CRCAEENCFI QKSDDKVTLE ERLDKACEPG VDYVYKTRLV KVQLSNDFDE

1570 1580 1590 1600 1610 1620
YIMAIEQTICK SGSDEVQVGQ QRTFISPIKC REALKLEEKK HYLMWGLSSD FWGEKPNLSY

1630 1640 1650 1660
IIGKDTWVEH WPEEDECQDE ENQKQCQDLG AFTESMVVFG

cctctccct ctgtccctc gtccctctga cactgcactg tcccagcacc
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atgggaccca cctcagggtcc cagcctgctg ctcctgctac taacccacct ccccctggct
70 80 90 100 110 120

ctggggagtc ccatgtactc tatcatcacc cccaacatct tgaggatgga gagcgaggag
130 140 150 160 170 180

accatggtgc tggaggccca cgacgcgcaa gggatgttc cagtcactgt tactgtccac
190 200 210 220 230 240

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gggcgcaaca agtacgtgac cgtgcaggcc accttcggga cccaagtggg ggagsaggtg
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cctggctcca cagttctcta taggatcttc accgecaacc acaagctgat acccgtggc
490 500 510 520 530 540

cggacggtca tggtaacat tgagaaccg gaaggcatcc cggtaagca ggactcctg
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tcttattcaga accagctgg cgtcttgccc ttgtcttggg acattccgga actcgacaac
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taagggaaaga aagtggaggg aactgcctt gtcatttcg ggatccagga tggcgaacag
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970 980 990 1000 1010 1020

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1090 1100 1110 1120 1130 1140

cccaagtaact tcaaaccagg aatgccctt gacctcatgg tgttcgtgac gaaccctgat
1150 1160 1170 1180 1190 1200

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1330 1340 1350 1360 1370 1380

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1450 1460 1470 1480 1490 1500

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1510 1520 1530 1540 1550 1560

ttgaaggcgg gacgccaggt gcgagagccc ggccaggacc tggtggtgct gcccctgtcc
1570 1580 1590 1600 1610 1620

atcaccaccc acttcatccc tcccttccgc ctggtggcgt actacacgct gatcggtgcc
1630 1640 1650 1660 1670 1680

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1750 1760 1770 1780 1790 1800

atgaccctga agatagaggg tgaccacggg gcccgggtgg tactggtggc cgtggacaag
1810 1820 1830 1840 1850 1860

ggcgttgc tgctgaataa gaagaacaaa ctgacgcaga gtaagatctg ggacgtggtg
1870 1880 1890 1900 1910 1920

gagaaggcag acatcggtcg cacccgggc agtgggaagg attacgccgg tgtcttc
1930 1940 1950 1960 1970 1980

gacgcagggc tgaccttcac gagcagcagt ggccagcaga ccgcccagag ggcagaactt
1990 2000 2010 2020 2030 2040

cagtccccgc agccagccgc ccgcccacgc cgttccgtgc agtcacgga gaagcgaatg
2050 2060 2070 2080 2090 2100

gacaaagtgc gcaagtaccc caaggagctg cgcaagtgtc gcgaggaccg catgcgggag
2110 2120 2130 2140 2150 2160

aaccccatga gttctcggtc ccagcgccgg acccgttcca tctccctggg cgaggcgtgc
2170 2180 2190 2200 2210 2220

aagaaggct tcctggactg ctgcaactac atcacagagc tgcggcggca gcacgcgcgg
2230 2240 2250 2260 2270 2280

gccagccacc tgggcctggc caggagtaac ctggatgagg acatcattgc agaagagaac
2290 2300 2310 2320 2330 2340

atcgtttccc gaagttagtt cccagagagc tggctgtgga acgttgagga cttgaaagag
2350 2360 2370 2380 2390 2400

ccaccgaaaa atggaatctc tacgaagctc atgaatatat ttttcaaaga ctccatcacc
2410 2420 2430 2440 2450 2460

acgtgggaga ttctggctgt gagcatgtcg gacaagaaag ggatctgtgt ggcagacccc
2470 2480 2490 2500 2510 2520

ttcgaggtca cagtaatgca ggacttcttc atcgacctgc ggctacccta ctctgttgtt
2530 2540 2550 2560 2570 2580

FIG.2C

cgaaacgagc aggtggaaat ccgagccgtt ctctacaatt accggcagaa ccaagagctc
2590 2600 2610 2620 2630 2640

aaggtaggg tggaactact ccacaatcca gccttctgca gcctggccac caccaagagg
2650 2660 2670 2680 2690 2700

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2710 2720 2730 2740 2750 2760

gtgccgctaa agaccggcct gcaggaagtg gaagtcaagg ctgctgtcta ccatcatttc
2770 2780 2790 2800 2810 2820

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2830 2840 2850 2860 2870 2880

actgtggctg ttgcacccct ggatccagaa cgcctgggcc gtgaaggagt gcagaaagag
2890 2900 2910 2920 2930 2940

gacatcccac ctgcagaccc tcaatgacccaa gtccggaca ccgagtctga gaccagaatt
2950 2960 2970 2980 2990 3000

ctcctgcaag ggaccccaat ggcccaatgt acagaggatg ccgtcgacgc ggaacggctg
3010 3020 3030 3040 3050 3060

aagcacctca ttgtgacccc ctcggctgc gggaaacaga acatgatcg catgacgccc
3070 3080 3090 3100 3110 3120

acggtcatcg ctgtgcatta cctggatgaa acggaggcgtt gggagaagtt cggcctagag
3130 3140 3150 3160 3170 3180

aagcggcagg gggccttgaa gctcatcaag aagggtaca cccagcagct ggacttcaga
3190 3200 3210 3220 3230 3240

caacccagct ctgccttgc ggccttcgtg aaacgggcac ccagcacctg gctgaccgcc
3250 3260 3270 3280 3290 3300

tacgtggtca aggtcttctc tctggctgtc aacctcatcg ccatcgactc ccaagtccctc
3310 3320 3330 3340 3350 3360

tgcggggctg ttaaatggct gatcctggag aagcagaagc ccgacgggtt cttccaggag
3370 3380 3390 3400 3410 3420

gatgcgcccgg tgatacacca agaaatgatt ggtggattac ggaacaacaa cgagaaagac
3430 3440 3450 3460 3170 3480

atggccctca cggccttgc tctcatctcg ctgcaggagg ctaaagatat ttgcgaggag
3490 3500 3510 3520 3530 3540

FIG.2D

caggtcaaca gcctgccagg cagcatcact aaagcaggag acttccttga agccaactac
3550 3560 3570 3580 3590 3600

atgaacctac agagatccta cactgtggcc attgctggct atgctctggc ccagatggc
3610 3620 3630 3640 3650 3660

aggctgaagg ggcctttct taacaaattt ctgaccacag ccaaagataa gaaccgctgg
3670 3680 3690 3700 3710 3720

gaggaccctg gtaagcagt ctacaacgtg gaggccacat cctatgccct cttggcccta
3730 3740 3750 3760 3770 3780

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3790 3800 3810 3820 3830 3840

tactacggtg gtggctatgg ctctacccag gccacccctca tggtgttcca agccttggct
3850 3860 3870 3880 3890 3900

caataccaaa aggacgcccc tgaccaccag gaactgaacc ttgatgtgtc cctccaactg
3910 3920 3930 3940 3950 3960

cccagccgca gctccaagat cacccaccgt atccactggg aatctgccag cctcctgcga
3970 3980 3990 4000 4010 4020

tcagaagaga ccaaggaaaa tgagggttgc acagtcacag ctgaaggaaa aggccaaggc
4030 4040 4050 4060 4070 4080

accttgcgg tggtgacaat gtaccatgtc aaggccaaag atcaactcac ctgtataaaa
4090 4100 4110 4120 4130 4140

ttcgaccta aggtcaccat aaaaccagca ccggaaacag aaaagaggcc tcaggatgcc
4150 4160 4170 4180 4190 4200

aagaacacta tgatccttga gatctgtacc aggtaccggg gagaccagga tgccactatg
4210 4220 4230 4240 4250 4260

tctatattgg acatatccat gatgactggc tttgctccag acacagatga cctgaagcag
4270 4280 4290 4300 4310 4320

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4330 4340 4350 4360 4370 4380

aggaacaccc tcatcatcta cctggacaag gtctcacact ctgaggatga ctgtctagct
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4450 4460 4470 4480 4490 4500

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4631 4640 4650 4660 4670 4680

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4691 4700 4710 4720 4730 4740

tacatcatgg ccattgagca gaccatcaag tcaggctcggt atgaggtgca ggttggacag
4750 4760 4770 4780 4790 4800

cagcgcacgt tcatcagccc catcaagtgc agagaagccc tgaagctgga ggagaagaaa
4810 4820 4830 4840 4850 4860

cactacctca tgtgggtct ctcctccgat ttctggggag agaagccaa cctcagctac
4870 4880 4890 4900 4910 4920

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4930 4940 4950 4960 4970 4980

gagaaccaga aacaatgcca ggacctcgcc gccttcaccg agagcatggt tgtctttggg
4990 5000 5010 5020 5030 5040

tgcccccaact gaccacaccc ccattcc
5050 5060

FIG.2F

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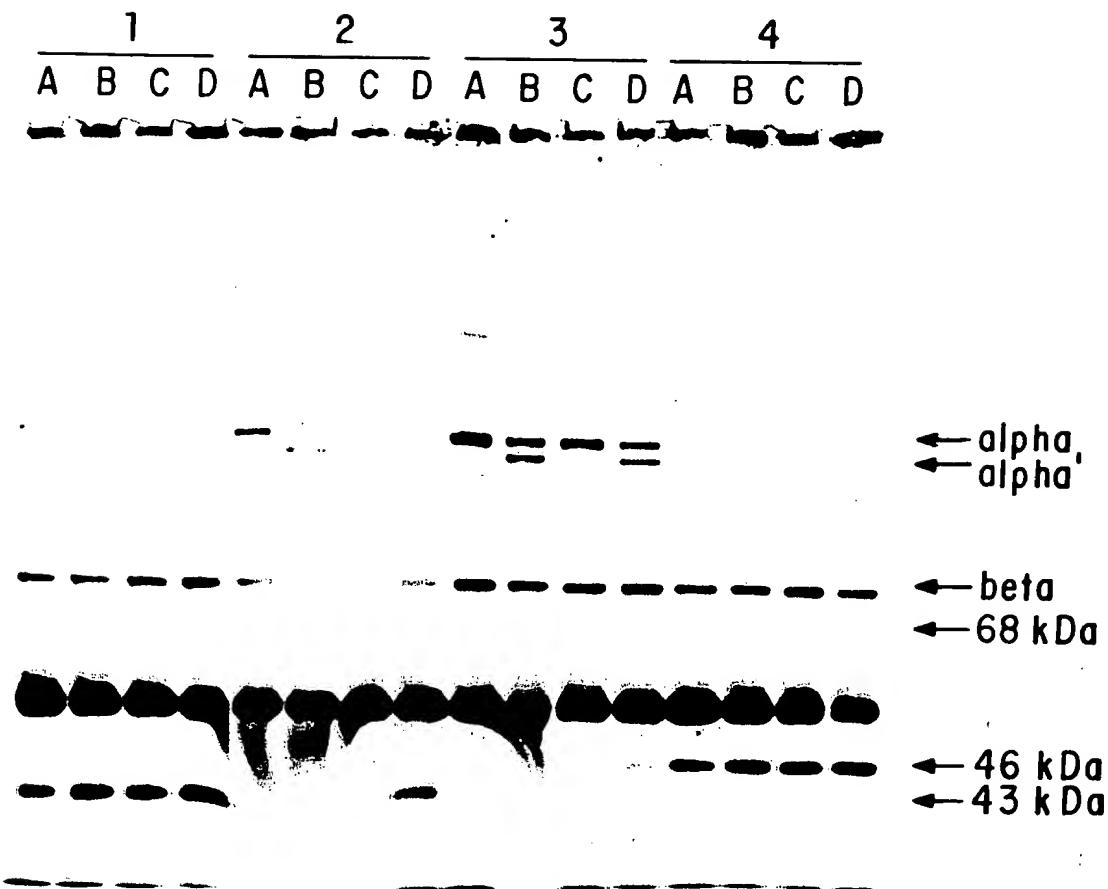


FIG. 3

Application #: 09/875,519
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Inventor: Farries et al.
Docket #: 4-30443B
Attorney: Susan L. Hess (862) 778-7859

Site 1: R Q Y G C W E R
Site 2: Q Q Q Q Q Q Q R

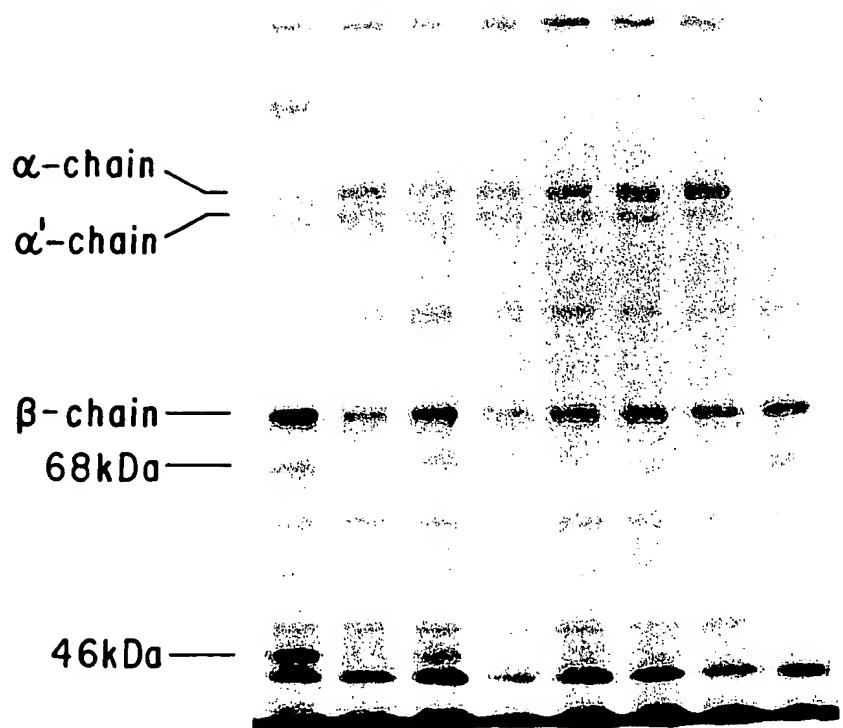
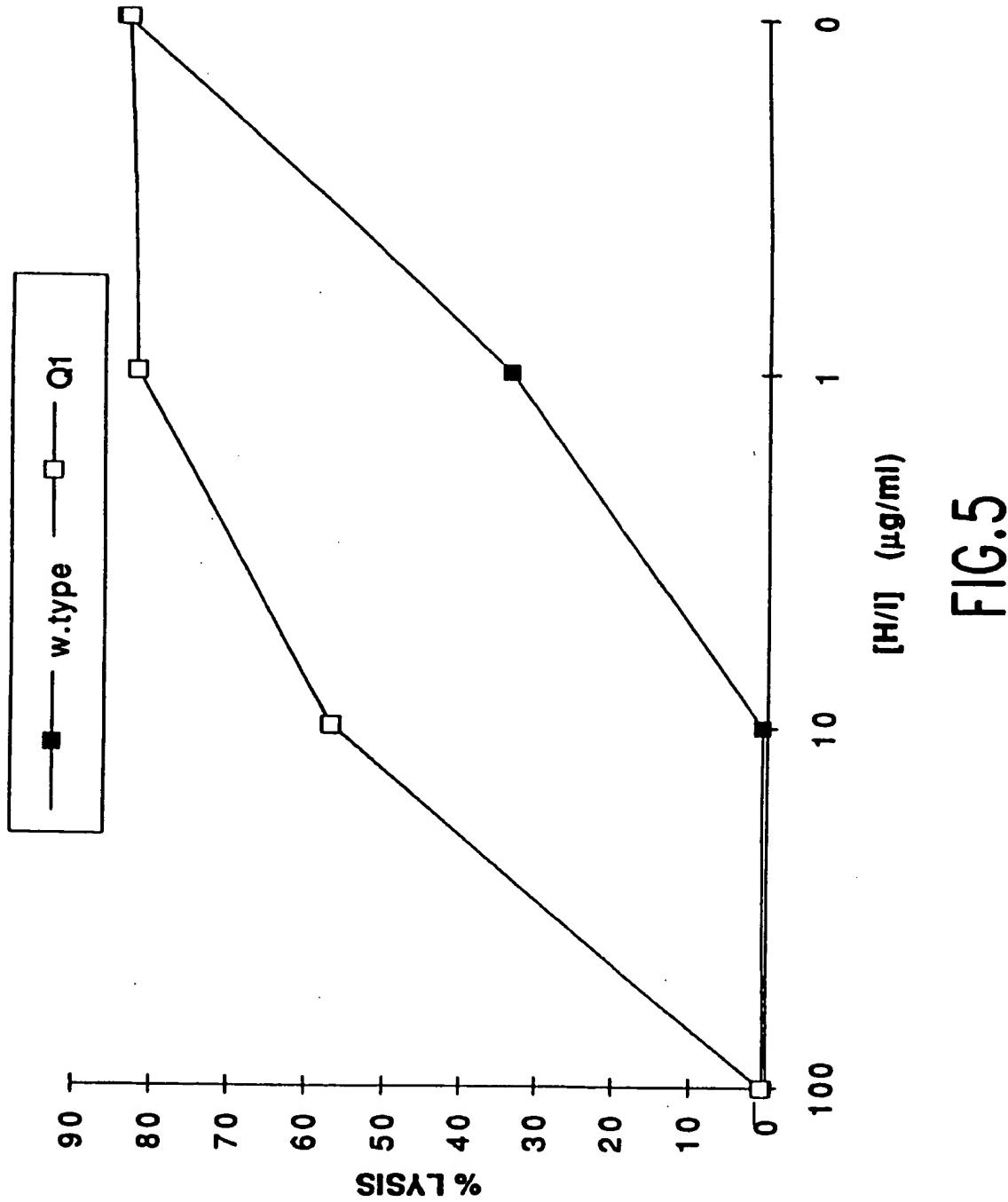


FIG.4



Application #: 09/875,519
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Attorney: Susan L. Hess (862) 778-7859

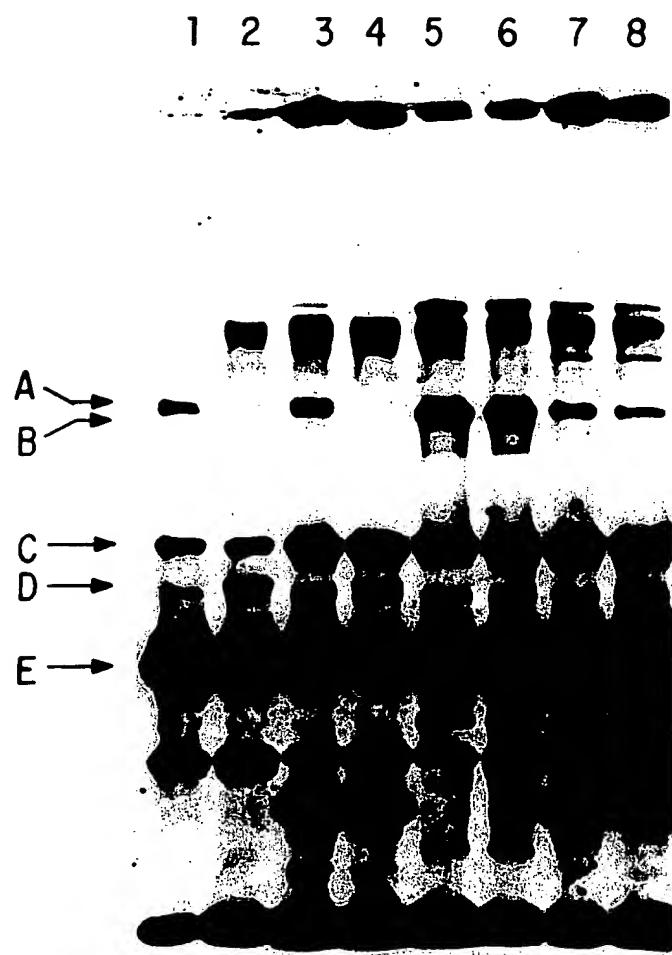


FIG. 6

Application #: 09/875,519
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Inventor: Farries et al.
Docket #: 4-30443B
Attorney: Susan L. Hess (862) 778-7859

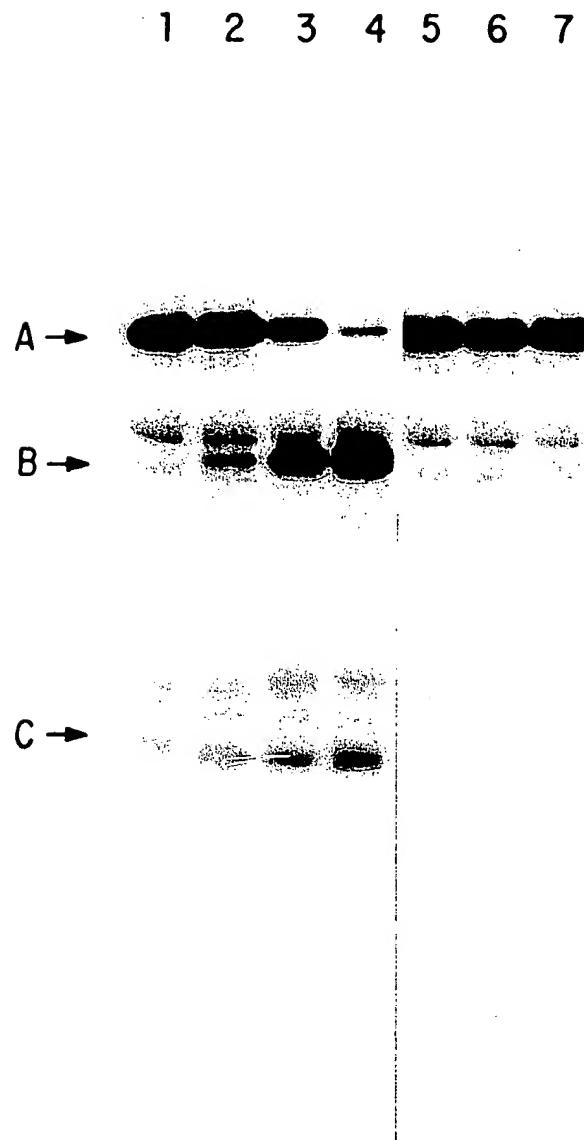


FIG. 7

Application #: 09/875,519
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Inventor: Farries et al.
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Attorney: Susan L. Hess (862) 778-7859

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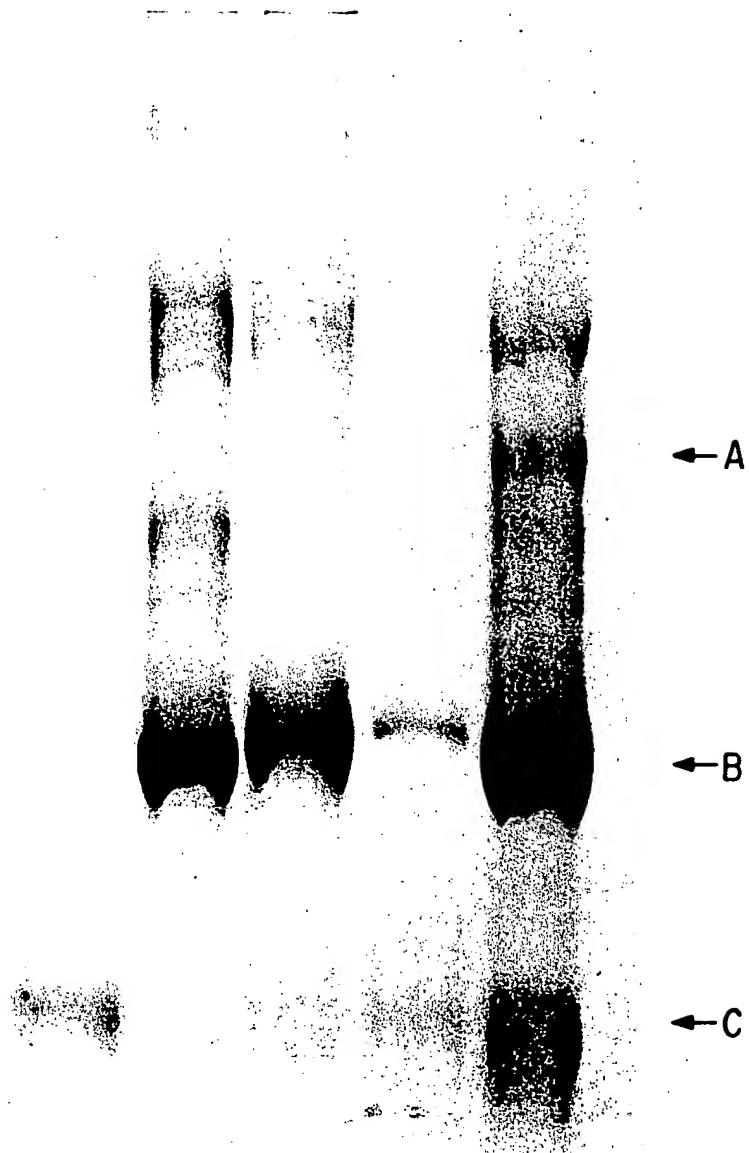


FIG. 8

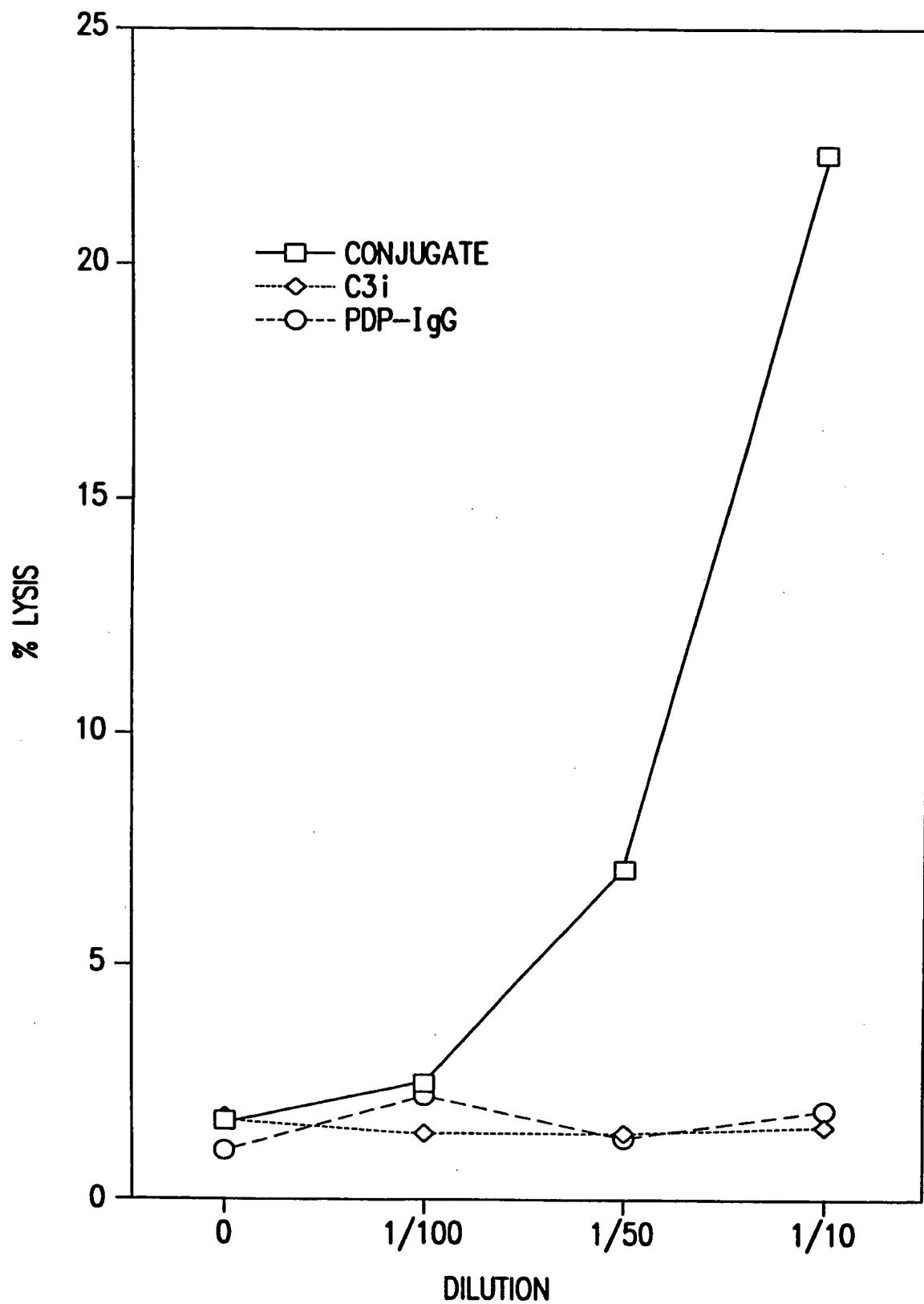


FIG.9

Application #: 09/875,519
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Inventor: Farries et al.
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Attorney: Susan L. Hess (862) 778-7859

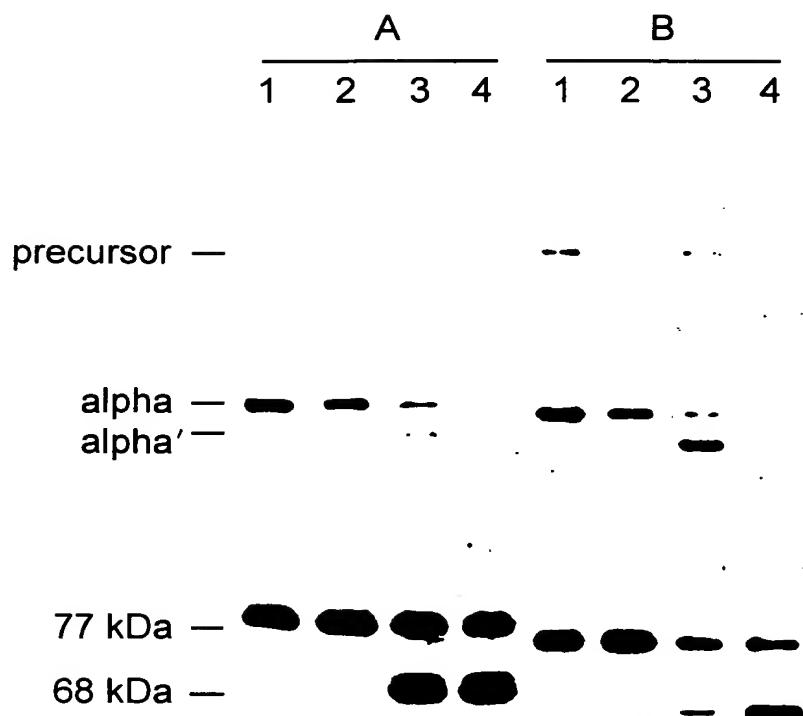


FIG. 10

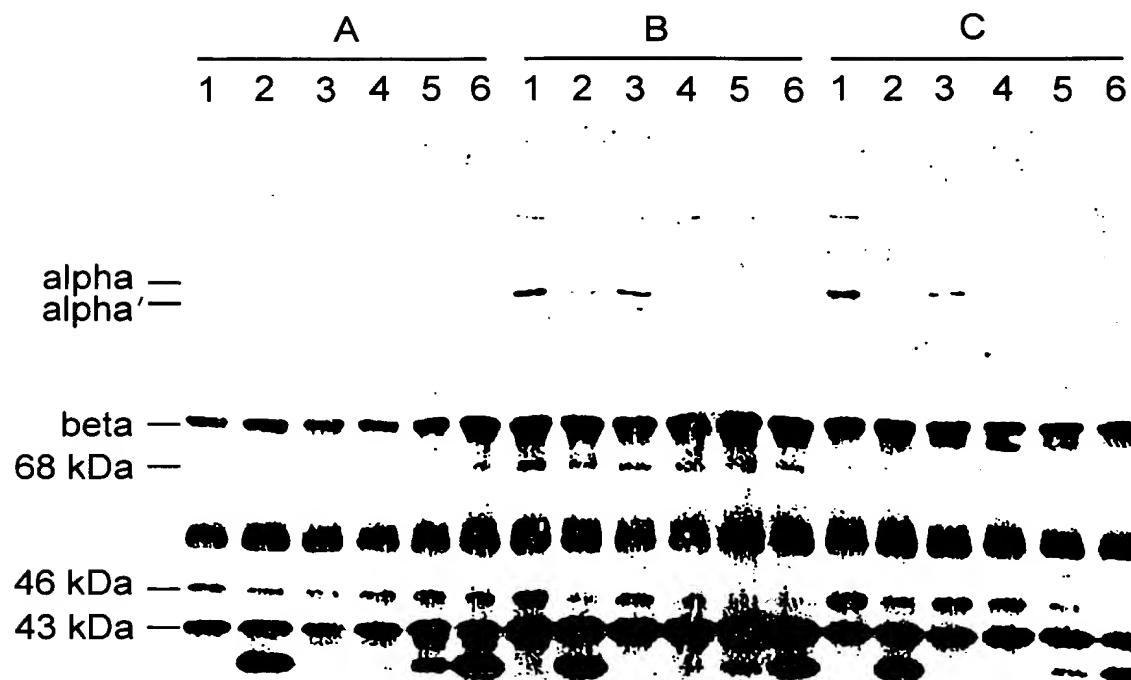


FIG. 11

Application #: 09/875,519
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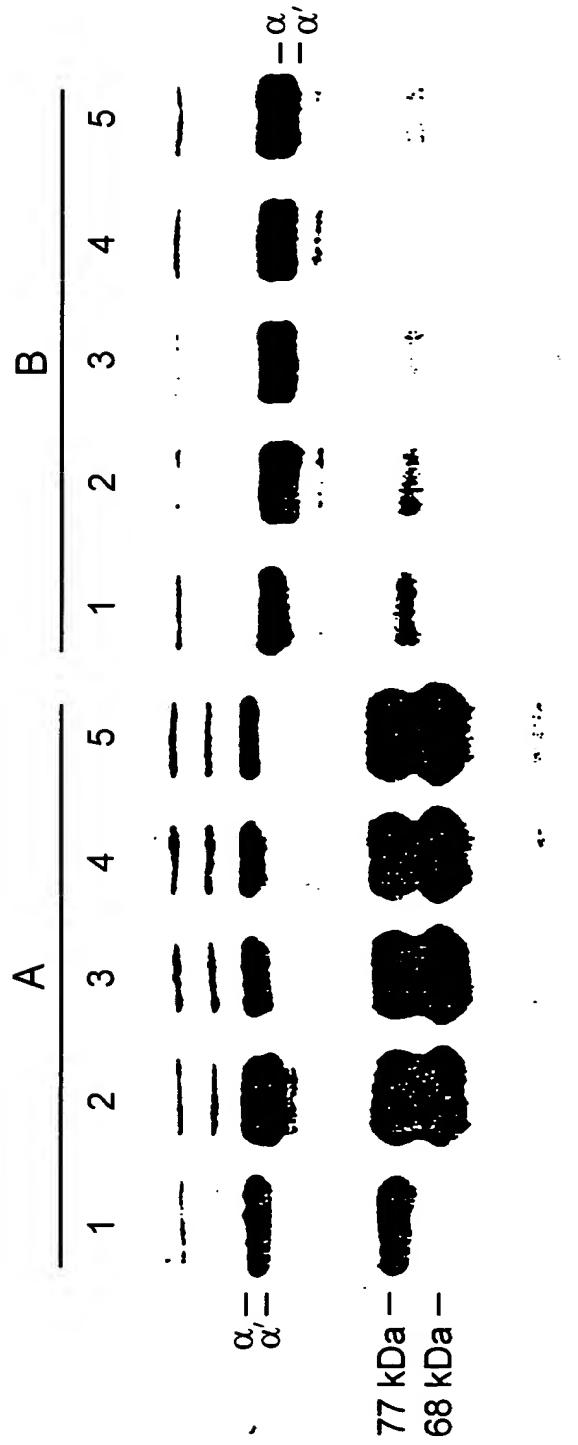


FIG.12

Application #: 09/875,519
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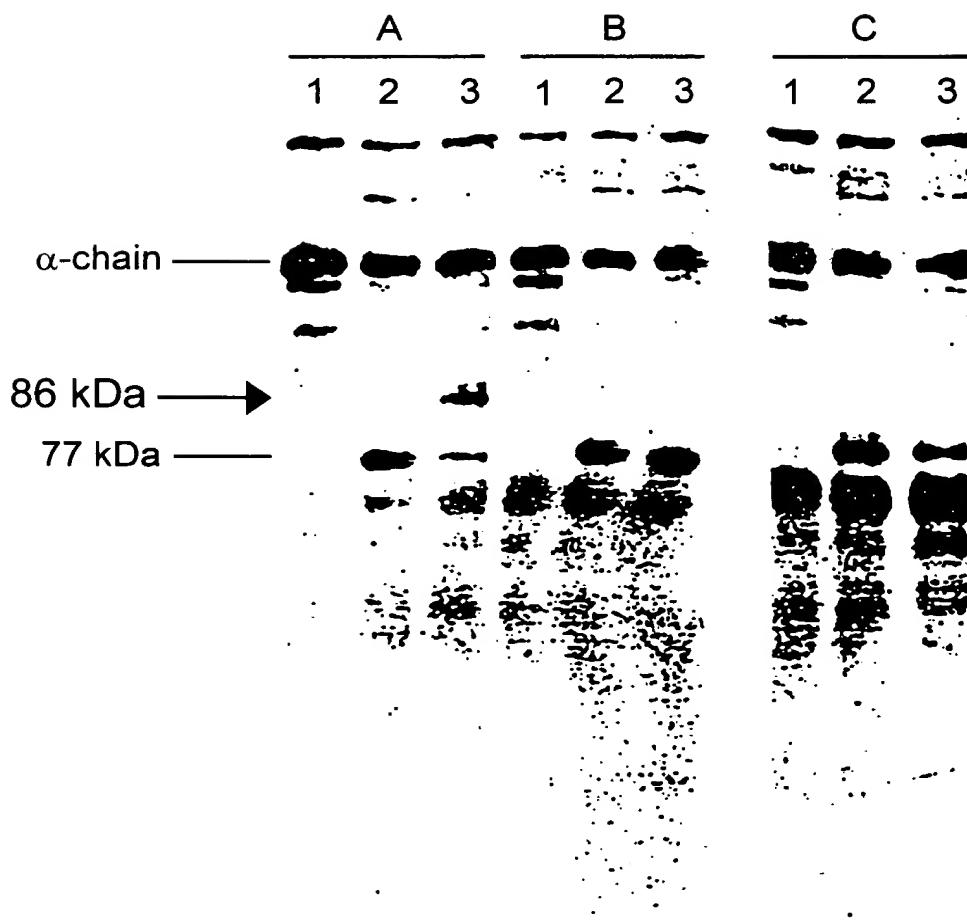


FIG. 13

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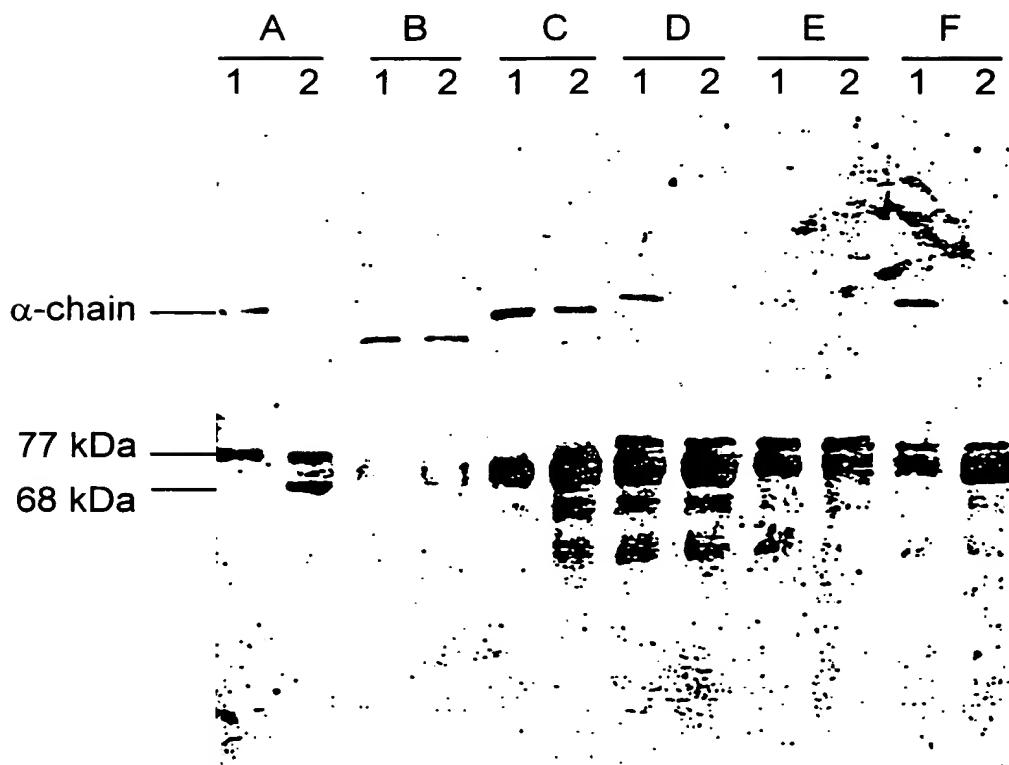


FIG.14

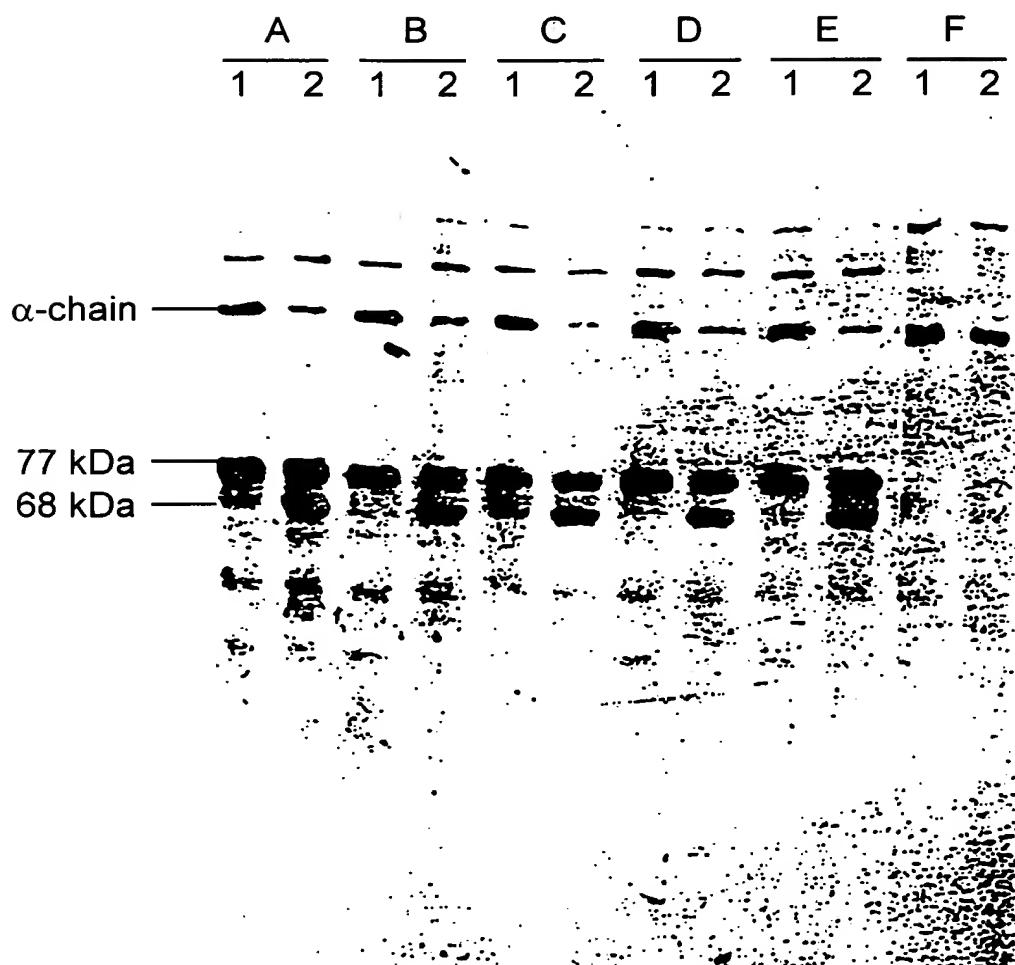


FIG. 15

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